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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/578,820

05/09/2006

Yoshinori Ootsuna

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EXAMINER

HENN, TIMOTHY J

ART UNIT

PAPER NUMBER

2622

NOTIFICATION DATE

DELIVERY MODE

10/02/2009

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patdocket@pearne.com  
dchervenak@pearne.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/578,820	<b>Applicant(s)</b> OOTSUNA ET AL.	
	<b>Examiner</b> Timothy J. Henn	<b>Art Unit</b> 2622	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 May 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 May 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Specification***

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Information Disclosure Statement***

2. The information disclosure statement filed 09 May 2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.
3. Foreign Patent documents 2001-100085, 2001-186401 and 2002-77717 were located and considered by the examiner, however a copy of 3-23034 could not be found. Applicant is requested to provide a copy of this document so that it may be considered by the examiner.

### ***Drawings***

4. Figures 9A-9C should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct

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any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doron (US 6,559,888) in view of Nishimoto (JP 2001-051183 A).

**[claim 1]**

Regarding claim 1, Doron discloses an image pickup device comprising an image pickup element (Figure 1, Item 15); a variable power lens arranged on the same optical axis as said image pickup element and changing image pickup magnification (Figure 1, Item 13; c. 5, ll. 7-44); a signal processing circuit for outputting a signal from said image pickup element as a picture image signal (c. 5, ll. 35-44); an image recording section (Figure 1, Item 84). However, Doron does not disclose a magnification converting lens arranged so as to be inserted and detached on said optical axis and converting the image pickup magnification into a predetermined multiple or a control section for

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performing control for inserting and detaching said magnification converting lens on said optical axis.

Nishimoto discloses a lens device for a camera including a magnification converting lens and control section as claimed which allows for the magnification of the optical lens system to be increased (Figure 1; Abstract). Therefore, it would be obvious to include such a lens and control section as claimed so that the magnification range of the camera of Doron could be increased. It is further noted that both Doron and Nishimoto disclose a smooth zooming process (e.g. Doron, Figure 8; Nishimoto, Figure 3). Doron further discloses that the zoom can include a digital zoom (e.g. processing a captured image to increase the effective zoom amount; Figure 8). Therefore, it would be obvious to combine the zoom teachings of Doron and Nishimoto so that the digital zoom of Doron is applied even when the magnification converting lens of Nishimoto is inserted so that the maximum total zoom amount can be obtained. It is noted that the claim as written only requires that the signal processing circuit output the image signal “when said magnification converting lens is inserted onto the optical axis” and does not limit the time during which the captured image signal is output to the time during a transition period of the magnification converting lens. While Doron discloses digital zoom processing of a captured image, Doron does not explicitly state that the zoom processing is applied to an image stored in the recording section.

Official Notice is taken that it is well known to temporarily store captured images in an internal memory prior to applying digital processing. Therefore it would be obvious to store the captured image signal in the recording section of Doron to ensure that the

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entire image is available prior to starting image processing and to provide a temporary working memory for the digital zoom processing.

**[claim 2]**

Regarding claim 2, Doron discloses a device wherein said image recording section records the picture image signal from said signal processing circuit as an image (see claim 1 above, working memory).

**[claim 3]**

Regarding claim 3, Doron discloses a device wherein said signal processing circuit electronically enlarges and outputs the image recorded to said image recording section (c. 6, ll. 33-49).

**[claim 4]**

Regarding claim 4, Doron discloses a device wherein said signal processing circuit stepwise enlarges and outputs the image recorded to said image recording section (c. 6, ll. 33-49).

**[claim 5]**

Regarding claim 5, Doron further discloses a device comprising a variable power lens magnification sensor for detecting the image pickup magnification of said variable power lens (e.g. Figure 3, DETERMINE CURRENT ZOOM SETTINGS), and wherein said signal processing circuit stepwise enlarges and outputs the image recorded to said image recording section according to the ratio of a change of the image pickup magnification of said variable power lens detected by said variable power lens magnification sensor (Figure, note that the digital zoom is changed in accordance with

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the change in the optical zoom such that the resulting zoom is equal, resulting in a smooth change in zoom).

**[claim 6]**

Regarding claim 6, Doron discloses a device wherein said signal processing circuit stepwise enlarges the image recorded to said image recording section according to a zoom operation (c. 6, ll. 33-49).

**[claim 7]**

Regarding claim 7, Doron discloses a device wherein said control section changes the image pickup magnification of said variable power lens when said signal processing circuit stepwise enlarges and outputs said image (Figure 8; c. 9, l. 57 – c. 10, l. 33).

**[claim 8]**

Regarding claim 8, Doron discloses a device wherein said control section changes the image pickup magnification of said variable power lens when said signal processing circuit stepwise enlarges and outputs said image (Figure 8; c. 9, l. 57 – c. 10, l. 33).

**[claim 9]**

Regarding claim 9, Doron discloses displaying images, but does not disclose synthesizing images as claimed. Official Notice is taken that it is well known in the art to synthesize captured and stored images so that multiple images may be viewed simultaneously. Therefore, it would be obvious to synthesize captured and stored images as claimed in order to display multiple images on the display. It is noted that

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claim 9 as written does not define how the images must be synthesized or processed.

**[claim 10]**

Claim 10 is a method claim corresponding to apparatus claim 1 above.

Therefore, claim 10 is analyzed and rejected as previously discussed with respect to claim 1.

***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Henn whose telephone number is (571) 272-7310. The examiner can normally be reached on M-F 11-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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/Timothy J Henn/  
Primary Examiner, Art Unit 2622